

## GPU Fast Charger

24V DC CHARGING SYSTEM



GPU 1700 and GPU 2400 portable aircraft start units are supplied with an internal 2.3A emergency charger designed to recharge the unit over an extended time period.

Frequent users of the GPU 1700 and GPU 2400 aircraft start units who require expedited charge times should consider the optional GPU fast charger.

The Powervamp GPU Fast Charger is designed to re-charge your GPU 1700 / GPU 2400 units quickly and safely whilst also optimising the batteries for maximum longevity.

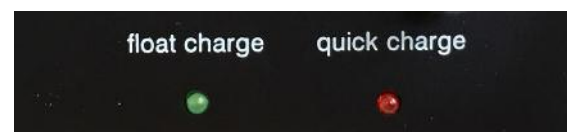
These microprocessor controlled fast chargers include a 3-stage step charge control with a low current start up and battery recovery feature.

Each charger is also fitted with reverse polarity, short circuit protection and temperature controlled compensation.

NOTE - when frequent charging the GPU 1700 Twin or GPU 2400 Twin aircraft start units, it is recommended that 2 individual chargers are used.

### GPU Fast Charger connection

For GPU 1700 and GPU 2400:  
24V Fast Charger with Merit connector



Charge mode display LEDs

# GPU Fast Charger 24V DC

## Specifications

Input	198-264V AC/47-63Hz/single phase	
Output power	294W	
Charge timer (step 2)	4 hours ± 30 mins	
Safety timer	72 hours	
Maximum charge current	10A	
Ripple	< 100 mV p-p	
Efficiency (at 100% load)	> 83%	
Switch Frequency	67 kHz (approx.)	
Operating Temperature	-25°C to +40°C (77°F to 104°F) Storage -25°C to +85°C (77°F to 185°F)	
Protections	- Short circuit - Reversed polarity - Over-temperature - Safety timer	
Safety	EN 60335-2-29	
Insulation class	Class I	
Insulation voltage	Primary ground	1500V AC
	Primary secondary	4000V AC
	Secondary ground	500V AC
EMC	EN 61000-6-3 EN 61000-6-1 EN 55014	
IP rating	IP20	
Dimensions (LxWxH)	H 58mm (2.8in), L 210mm (8.3in), W 148mm (75.8in)	
Weight	1.55kg (3.4lbs)	

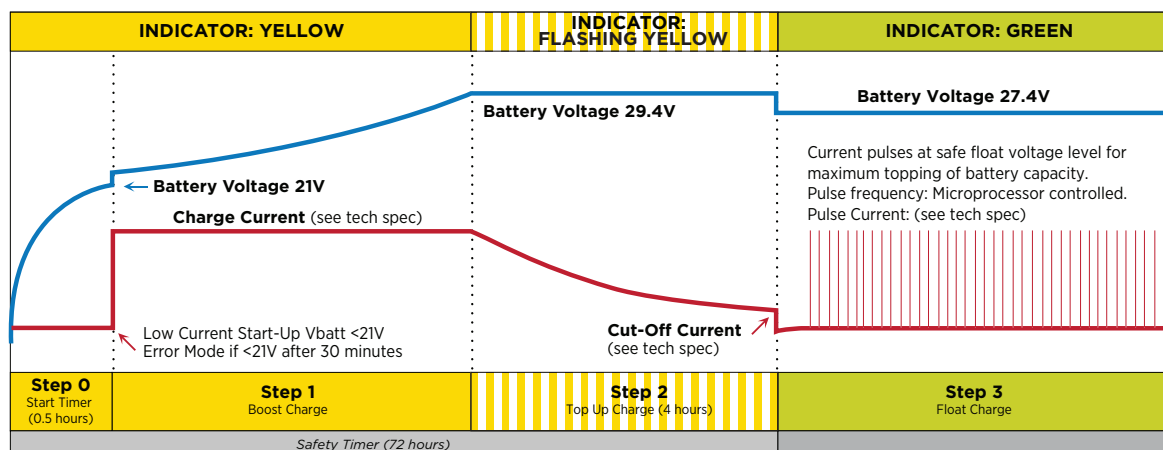
## Features

- 3-step charging with microprocessor control
- Low current start-up of deeply discharged batteries (step 0)
- Boost charge (step 1)
- Top-up charge (step 2)
- Pulsing float charge (step 3)
- Temperature compensation
- Protected against reversed polarity and short circuit proof
- Unaffected by fluctuations from input voltage
- 3-pin IEC-60320 input connector

### CHARGE CONTROL – LED INDICATION

	Step 0 < 30 min (Yellow)	Step 0 > 30 min (Red=error)	Step 1 (Yellow)	Step 2 (Flash Yellow)	Step 3 (Green)	Float charge
<b>24V</b>	1.3A ± 0.5A (batt. volt < 21V)	< 0.3A	10A ± 0.5A 21-29.4V	29.4V ± 0.1V (until I charge < 1.3A or > 4hr)	27.4V ± 0.2V (until I charge > 10A)	27.4V ± 0.2V

### Charging characteristics and LED indication



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